

PCT03-127-T

1/8

## PCT REQUEST

Original (for SUBMISSION )

|         |   |   |
|---------|---|---|
| 0       | For receiving Office use only   |   |
| 0-1     | International Application No.   |   |
| 0-2     | International Filing Date   |   |
| 0-3     | Name of receiving Office and "PCT International Application"  |   |
| 0-4     | Form PCT/RO/101 PCT Request   |   |
| 0-4-1   | Prepared Using  | PCT-SAFE [EASY mode]<br>Version 3.50 (Build 0002.162) |
| 0-5     | Petition<br>The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty |   |
| 0-6     | Receiving Office (specified by the applicant)   |   |
| 0-7     | Applicant's or agent's file reference   |   |
| I       | Title of Invention  |   |
| II      | Applicant   |   |
| II-1    | This person is  |   |
| II-2    | Applicant for   |   |
| II-4    | Name  |   |
| II-5    | Address   |   |
| II-6    | State of nationality  |   |
| II-7    | State of residence  |   |
| II-8    | Telephone No.   |   |
| II-9    | Facsimile No.   |   |
| III-1   | Applicant and/or inventor   |   |
| III-1-1 | This person is  |   |
| III-1-2 | Applicant for   |   |
| III-1-4 | Name (LAST, First)  |   |
| III-1-5 | Address   |   |
| III-1-6 | State of nationality  |   |
| III-1-7 | State of residence  |   |



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|   |  |  |
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| III-2   | <b>Applicant and/or inventor</b>   |  |
| III-2-1   | This person is   |  |
| III-2-2   | Applicant for  |  |
| III-2-4   | Name (LAST, First)   |  |
| III-2-5   | Address  |  |
| III-2-6   | State of nationality   |  |
| III-2-7   | State of residence   |  |
| III-3   | <b>Applicant and/or inventor</b>   |  |
| III-3-1   | This person is   |  |
| III-3-2   | Applicant for  |  |
| III-3-4   | Name (LAST, First)   |  |
| III-3-5   | Address  |  |
| III-3-6   | State of nationality   |  |
| III-3-7   | State of residence   |  |
| IV-1  | <b>Agent or common representative; or address for correspondence</b>   |  |
| The person identified below is hereby/ has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: |  |  |
| IV-1-1  | Name (LAST, First)   |  |
| IV-1-2  | Address  |  |
| IV-1-3  | Telephone No.  |  |
| IV-1-4  | Facsimile No.  |  |
| <b>V</b>  | <b>DESIGNATIONS</b>  |  |
| V-1   | The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the International filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents. |  |

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|        |  |                                       |  |
|--------|--|---------------------------------------|--|
| VI-1   | Priority claim of earlier national application   |                                       |  |
| VI-1-1 | Filing date  | 09 October 2003 (09.10.2003)          |  |
| VI-1-2 | Number   | 2003-351100                           |  |
| VI-1-3 | Country  | JP                                    |  |
| VI-2   | Priority document request<br><br>The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s): | VI-1                                  |  |
| VII-1  | International Searching Authority Chosen   | European Patent Office (EPO) (ISA/EP) |  |
| VIII   | Declarations   | Number of declarations                |  |
| VIII-1 | Declaration as to the identity of the inventor   | -                                     |  |
| VIII-2 | Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent   | 1                                     |  |
| VIII-3 | Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application   | -                                     |  |
| VIII-4 | Declaration of inventorship (only for the purposes of the designation of the United States of America)   | 1                                     |  |
| VIII-5 | Declaration as to non-prejudicial disclosures or exceptions to lack of novelty   | -                                     |  |

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|-------------------|---|--|
| VIII-2-1          | <p>Declaration: Entitlement to apply for and be granted a patent</p> <p>Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate:</p> <p>Name (LAST, First)</p> | <p>in relation to this international application</p> <p>TOYOTA JIDOSHA KABUSHIKI KAISHA is entitled to apply for and be granted a patent by virtue of the following:</p> |
| VIII-2-1(i)<br>i) |   | TOYOTA JIDOSHA KABUSHIKI KAISHA is entitled as employer of the inventor, HAYASHI, Tomokazu   |
| VIII-2-1(i)<br>i) |   | TOYOTA JIDOSHA KABUSHIKI KAISHA is entitled as employer of the inventor, WADA, Mikio   |
| VIII-2-1(i)<br>i) |   | TOYOTA JIDOSHA KABUSHIKI KAISHA is entitled as employer of the inventor, MYOJIN, Iwao  |
| VIII-2-1(i)<br>x) | This declaration is made for the purposes of:   | all designations except the designation of the United States of America  |

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| VIII-4-1       | <p>Declaration: Inventorship (only for the purposes of the designation of the United States of America)<br/>Declaration of Inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America:</p> <p>I hereby declare that I believe I am the original, first and sole (if only one inventor is listed below) or joint (if more than one inventor is listed below) inventor of the subject matter which is claimed and for which a patent is sought.</p> <p>This declaration is directed to the international application of which it forms a part (if filing declaration with application).</p> <p>I hereby declare that my residence, mailing address, and citizenship are as stated next to my name.</p> <p>I hereby state that I have reviewed and understand the contents of the above-identified international application, including the claims of said application. I have identified in the request of said application, in compliance with PCT Rule 4.10, any claim to foreign priority, and I have identified below, under the heading "Prior Applications", by application number, country or Member of the World Trade Organization, day, month, and year of filing, any application for a patent or inventor's certificate filed in a country other than the United States of America, including any PCT international application designating at least one country other than the United States of America, having a filing date before that of the application on which foreign priority is claimed.</p> |
| VIII-4-1-<br>1 | Prior applications:<br>2003-351100, JP, 09 October 2003<br>(09.10.2003)   |

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I hereby acknowledge the duty to disclose information that is known by me to be material to patentability as defined by 37 C.F.R. § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the PCT international filing date of the continuation-in-part application. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

|                  |   |   |
|------------------|---|---|
| VIII-4-1-<br>1-1 | Name (LAST, First)  | HAYASHI, Tomokazu   |
| VIII-4-1-<br>1-2 | Residence:<br>(city and either US State, if applicable, or country)   | Toyota-shi, Aichi, Japan  |
| VIII-4-1-<br>1-3 | Mailing address:  | c/o TOYOTA JIDOSHA KABUSHIKI KAISHA 1, Toyota-cho Toyota-shi, Aichi 4718571 Japan |
| VIII-4-1-<br>1-4 | Citizenship:  | JP  |
| VIII-4-1-<br>1-5 | Inventor's Signature:<br>(if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent) | <i>Hayashi, Tomokazu</i>  |
| VIII-4-1-<br>1-6 | Date:<br>(of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)  | 09.09.2004  |

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| VIII-4-1-<br>2-1 | Name (LAST, First)  | <b>WADA, Mikio</b>   |
| VIII-4-1-<br>2-2 | Residence:<br>(city and either US State, if applicable, or country)   | <b>Nishikamo-gun, Aichi, Japan</b>   |
| VIII-4-1-<br>2-3 | Mailing address:  | <b>c/o TOYOTA JIDOSHA KABUSHIKI KAISHA 1,<br/>Toyota-cho Toyota-shi, Aichi 4718571<br/>Japan</b> |
| VIII-4-1-<br>2-4 | Citizenship:  | <b>JP</b>  |
| VIII-4-1-<br>2-5 | Inventor's Signature:<br>(if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent) | <i>Wada, Mikio</i>   |
| VIII-4-1-<br>2-6 | Date<br>(of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)   | <i>09. 09. 2004</i>  |
| VIII-4-1-<br>3-1 | Name (LAST, First)  | <b>MYOJIN, Iwao</b>  |
| VIII-4-1-<br>3-2 | Residence:<br>(city and either US State, if applicable, or country)   | <b>Toyota-shi, Aichi, Japan</b>  |
| VIII-4-1-<br>3-3 | Mailing address:  | <b>c/o TOYOTA JIDOSHA KABUSHIKI KAISHA 1,<br/>Toyota-cho Toyota-shi, Aichi 4718571<br/>Japan</b> |
| VIII-4-1-<br>3-4 | Citizenship:  | <b>JP</b>  |
| VIII-4-1-<br>3-5 | Inventor's Signature:<br>(if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent) | <i>Myojin, Iwao</i>  |
| VIII-4-1-<br>3-6 | Date<br>(of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)   | <i>09. 09. 2004</i>  |

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|           |   |                                   |                                    |
|-----------|---|-----------------------------------|------------------------------------|
| <b>IX</b> | <b>Check list</b>   | number of sheets                  | electronic file(s) attached        |
| IX-1      | Request (including declaration sheets)                            | 8                                 | ✓                                  |
| IX-2      | Description   | 16                                | -                                  |
| IX-3      | Claims  | 3                                 | -                                  |
| IX-4      | Abstract  | 1                                 | ✓                                  |
| IX-5      | Drawings  | 4                                 | -                                  |
| IX-7      | <b>TOTAL</b>  | <b>32</b>                         |                                    |
|           | <b>Accompanying Items</b>   | <b>paper document(s) attached</b> | <b>electronic file(s) attached</b> |
| IX-8      | Fee calculation sheet   | ✓                                 | -                                  |
| IX-9      | Original separate power of attorney                               | ✓                                 | -                                  |
| IX-17     | PCT-SAFE physical media   | -                                 | ✓                                  |
| IX-19     | <b>Figure of the drawings which should accompany the abstract</b> | <b>1</b>                          |                                    |
| IX-20     | <b>Language of filing of the International application</b>        | <b>English</b>                    |                                    |
| X-1       | <b>Signature of applicant, agent or common representative</b>     | <i>Tabuchi, Tsuneo</i>            |                                    |
| X-1-1     | Name (LAST, First)  | TABUCHI, Tsuneo                   |                                    |
| X-1-2     | Name of signatory   |                                   |                                    |
| X-1-3     | Capacity  |                                   |                                    |

**FOR RECEIVING OFFICE USE ONLY**

|        |  |        |
|--------|--|--------|
| 10-1   | <b>Date of actual receipt of the purported International application</b>   |        |
| 10-2   | <b>Drawings:</b>   |        |
| 10-2-1 | Received   |        |
| 10-2-2 | Not received   |        |
| 10-3   | <b>Corrected date of actual receipt due to later but timely received papers or drawings completing the purported International application</b> |        |
| 10-4   | <b>Date of timely receipt of the required corrections under PCT Article 11(2)</b>  |        |
| 10-5   | <b>International Searching Authority</b>   | ISA/EP |
| 10-6   | <b>Transmittal of search copy delayed until search fee is paid</b>   |        |

**FOR INTERNATIONAL BUREAU USE ONLY**

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|------|---|--|
| 11-1 | <b>Date of receipt of the record copy by the International Bureau</b> |  |
|------|---|--|

**PCT REQUEST (ANNEX - FEE CALCULATION SHEET)**

Original (for SUBMISSION)

(This sheet is not part of and does not count as a sheet of the international application)

|        |  |            |                       |
|--------|--|------------|-----------------------|
| 0      | For receiving Office use only  |            |                       |
| 0-1    | International Application No.  |            |                       |
| 0-2    | Date stamp of the receiving Office                                     |            |                       |
| 0-4    | Form PCT/RO/101 (Annex)<br>PCT Fee Calculation Sheet<br>Prepared Using |            |                       |
| 0-4-1  | PCT-SAFE [EASY mode]<br>Version 3.50 (Build 0002.162)                  |            |                       |
| 0-9    | Applicant's or agent's file reference PCT03-127-T                      |            |                       |
| 2      | Applicant TOYOTA JIDOSHA KABUSHIKI KAISHA                              |            |                       |
| 12     | Calculation of prescribed fees   |            |                       |
| 12-1   | Transmittal fee  | T          | fee amount/multiplier |
| 12-2-1 | Search fee   | S          | ⇒ 13000               |
| 12-2-2 | International search to be carried out by                              | EP         |                       |
| 12-3   | International filing fee<br>(first 30 sheets)                          | I1         | 123200                |
| 12-4   | Remaining sheets   | I2         | 2                     |
| 12-5   | Additional amount  | (X)        | 1300                  |
| 12-6   | Total additional amount  | I2         | 2600                  |
| 12-7   | i1 + i2 =  | I          | 125800                |
| 12-12  | EASY Filing reduction  | R          | -8800                 |
| 12-13  | Total International filing fee (i-R)                                   | I          | 117000                |
| 12-14  | Fee for priority document  |            |                       |
| 12-15  | Number of priority documents requested                                 | 0          |                       |
| 12-16  | Fee per document   | (X)        | 1400                  |
| 12-17  | Total priority document fee:   | P          | 330100                |
| 12-19  | Mode of payment  | bank draft |                       |

Original (for SUBMISSION )

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|--------|-------------------------------------|---|
| 13-2-4 | Validation messages<br>Priority     | Yellow<br>The national law for the international priority system will be applied to this international application. If you do not withdraw the priority claim of the earlier national application or JP designation, the earlier national application will cease to have with the same consequence as the withdrawal of it. |
| 13-2-6 | Validation messages<br>Declarations | Green?<br>Manually inputted data. Please verify the contents of the information provided.   |
|        | Validation messages<br>Declarations | Green?<br>Manually inputted data. Please verify the contents of the information provided.   |
| 13-2-8 | Validation messages<br>Fees         | Green?<br>Please verify that modified fee amounts are correct.  |